



Pennsylvania Department of Environmental Protection

PA 0026310

208 West Third Street, Suite 101
Williamsport, PA 17701-6448

January 11, 2008

Northcentral Regional Office

570-327-3664
Fax 570-327-3565

CERTIFIED MAIL NO. 7006 2150 0003 5203 5331

Mr. Jeffrey S. Williams
Clearfield Municipal Authority
107 East Market Street
Clearfield, PA 16830

JAN 16 2008

Re: Sewerage - NPDES PA0026310
Clearfield Municipal Authority
Lawrence Township, Clearfield County

Dear Mr. Williams:

Enclosed is a reissued National Pollutant Discharge Elimination System (NPDES) permit along with a sample Discharge Monitoring Report (DMR) and a sample form for reporting discharge noncompliances, with instructions.

The Department's response to comments on the draft permit as received in your email of October 2, 2007 are as follows:

1. The Clearfield Municipal Authority address has been corrected.
2. The location of the WWTP was corrected to Lawrence Township.
3. CSO 018 has been removed from the listing, and CSO 014 has been noted as temporarily closed.
4. It was noted that the nearest downstream potable water intake is at the Shawville Generation Station.
5. The Department believes that the appropriate sampling frequency was used in the draft permit. The reasoning for this is explained in TABLE 6-3, Self-Monitoring Requirements For SEWAGE Discharges located in The Technical Guidance for the Development and Specification of Effluent Limitations and Other Permit Conditions in NPDES Permit (DEP Document No. 362-0400-001), which recommends that for both Ammonia-N and Phosphorus, the monitoring requirements for facilities with a design flow that falls between the following ranges should be as follows:



<u>Flow Range</u>	<u>Frequency</u>
0.1 mgd to 1.0 mgd	1/week
1.0 mgd to 5.0 mgd	2/week
5.0 mgd to 25.0 mgd	Daily
Greater than 25.0 mgd	1/shift

Since the facility design flow is 4.0 mgd, by the guidance, the sampling frequency should be 2/week. However, relaxed sampling requirements have been applied to the permit for these parameters. Since the facility design flow is 4.0 mgd, by the guidance, the sampling frequency should be 2/week. However, relaxed sampling requirements have been applied to the permit for these parameters.

Any person aggrieved by this action may appeal, pursuant to Section 4 of the Environmental Hearing Board Act, 35 P.S. Section 7514, and the Administrative Agency Law, 2 Pa. C.S. Chapter 5A, to the Environmental Hearing Board, Second Floor, Rachel Carson State Office Building, 400 Market Street, PO Box 8457, Harrisburg, PA 17105-8457, 717-787-3483. TDD users may contact the Board through the Pennsylvania Relay Service, 800-654-5984. Appeals must be filed with the Environmental Hearing Board within 30 days of receipt of written notice of this action unless the appropriate statute provides a different time period. Copies of the appeal form and the Board's rules of practice and procedure may be obtained from the Board. The appeal form and the Board's rules of practice and procedure are also available in braille or on audiotape from the Secretary to the Board at 717-787-3483. This paragraph does not, in and of itself, create any right of appeal beyond that permitted by applicable statutes and decisional law.

IF YOU WANT TO CHALLENGE THIS ACTION, YOUR APPEAL MUST REACH THE BOARD WITHIN 30 DAYS. YOU DO NOT NEED A LAWYER TO FILE AN APPEAL WITH THE BOARD.

IMPORTANT LEGAL RIGHTS ARE AT STAKE, HOWEVER, SO YOU SHOULD SHOW THIS DOCUMENT TO A LAWYER AT ONCE. IF YOU CANNOT AFFORD A LAWYER, YOU MAY QUALIFY FOR FREE PRO BONO REPRESENTATION. CALL THE SECRETARY TO THE BOARD (717-787-3483) FOR MORE INFORMATION.

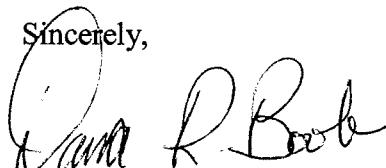
Mr. Jeffrey S. Williams

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January 11, 2008

Should you have any questions, please feel free to contact the Permit Section of this office.

Sincerely,

A handwritten signature in black ink, appearing to read "Dana R. Boob". The signature is fluid and cursive, with the first name "Dana" being the most prominent.

Dana R. Boob, P.E., P.L.S.
Chief, Permit Section
Water Management

Enclosures: Permit
Discharge Monitoring Report Form (DMR)
Noncompliance Form

cc: EPA Region III
Central Office
Regional Office



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER STANDARDS AND FACILITY REGULATION

**AUTHORIZATION TO DISCHARGE UNDER THE
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE REQUIREMENTS FOR PUBLICLY OWNED
TREATMENT WORKS (POTWs)**

NPDES PERMIT NO: PA0026310

In compliance with the provisions of the Clean Water Act, 33 U.S.C. Section 1251 *et seq.* ("the Act") and Pennsylvania's Clean Streams Law, as amended, 35 P.S. Section 691.1 *et seq.*,

Clearfield Municipal Authority

107 East Market Street

Clearfield, PA 16830

is authorized to discharge from a facility known as **Clearfield Municipal Authority Wastewater Treatment Facility**, located in **Lawrence Township, Clearfield County** to the **West Branch Susquehanna River** in Watershed **8B Chest-Anderson Creeks** in accordance with effluent limitations, monitoring requirements and other conditions set forth in Parts A, B and C hereof.

THIS PERMIT SHALL BECOME EFFECTIVE ON 2/1/2008

THIS PERMIT SHALL EXPIRE AT MIDNIGHT ON 1/31/2013

The authority granted by this permit is subject to the following further qualifications:

1. If there is a conflict between the application, its supporting documents and/or amendments and the terms and conditions of this permit, the terms and conditions shall apply.
2. Failure to comply with the terms, conditions or effluent limitations of this permit is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. 40 CFR 122.41(a)
3. A complete application for renewal of this permit, or notice of intent to cease discharging by the expiration date, must be submitted to DEP at least 180 days prior to the above expiration date (unless permission has been granted by DEP for submission at a later date), using the appropriate NPDES permit application form. 40 CFR 122.41(b), 122.21(d)

In the event that a timely and complete application for renewal has been submitted and DEP is unable, through no fault of the permittee, to reissue the permit before the above expiration date, the terms and conditions of this permit, including submission of the Discharge Monitoring Reports (DMRs), will be automatically continued and will remain fully effective and enforceable against the discharger until DEP takes final action on the pending permit application. 25 Pa. Code 92.9.

4. This NPDES permit does not constitute authorization to construct or make modifications to wastewater treatment facilities necessary to meet the terms and conditions of this permit.

DATE PERMIT ISSUED 1/11/2008

ISSUED BY

Robert C. Youell, R.D.
for
TITLE: Water Management Program Manager

DATE PERMIT AMENDMENT ISSUED _____

PART A. EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING AND REPORTING REQUIREMENTS**I. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS****A. For Outfall 001, Latitude 41° 1' 30", Longitude 78° 24' 1", River Mile Index 173.9, Stream Code 18668****Discharging to West Branch Susquehanna River**which receives wastewater from Clearfield Municipal Authority Wastewater Treatment Facility

1. The permittee is authorized to discharge during the period from 2/1/2008 through 1/31/2013.
2. Based on the anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements, Footnotes and Supplemental Information).

Discharge Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/l)				Minimum ⁽³⁾ Measurement Frequency	Required Sample Type
	Monthly Average	Weekly Average	Minimum	Monthly Average	Weekly Average	Instantaneous Maximum ⁽²⁾		
Flow (MGD)	Report						Continuous	Meter
PH (Std Units)			6.0			9.0	1/Day	Grab
Fecal Coliform (5/1 – 9/30)	200/100ml geo mean and not greater than 1,000/100ml in more than 10% of the samples tested						2/Week	Grab
(10/1 – 4/30)	2,000/100ml geo mean						2/Week	Grab
CBOD ₅	938	1501		25	40	50	2/Week	24 Hr Comp
TSS	1126	1689		30	45	60	2/Week	24 Hr Comp
Total Residual Chlorine				0.5		1.6	1/Day	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

Outfall 001

PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING AND REPORTING REQUIREMENTS (Con't)

3. Additional Requirements

- a. The discharger may not discharge floating materials, oil, grease, scum, foam, sheen and substances which produce color, taste, turbidity or settle to form deposits in concentrations or amounts sufficient to be, or creating a danger of being, inimical to the water uses to be protected or to human, animal, plant or aquatic life.. 25 Pa. Code 92.51(6)
- b. Except as otherwise specified in this permit, the 30-day average percent removal for carbonaceous biochemical oxygen demand and total suspended solids shall not be less than 85 percent. 40 CFR 133.102
- c. Effective disinfection to control disease producing organisms from the period of May 1 to September 30 shall be the production of an effluent which will contain a concentration not greater than 200/100 ml of fecal coliform colonies as a geometric mean, nor greater than 1,000/100 ml of these colonies in more than 10 percent of the samples tested. 25 Pa Code 92.2c (b)(2)

Footnotes

- (1) When sampling to determine compliance with mass effluent limitations, the discharge flow at the time of sampling must be measured and recorded.
- (2) The Instantaneous Maximum Discharge Limitations are for compliance use by DEP only. Do not report instantaneous maximums on DMRs or supplemental DMRs unless specifically required on those forms to do so.
- (3) This is the minimum number of sampling events required. Permittees are encouraged, and it may be advantageous in demonstrating compliance, to perform more than the minimum number of sampling events.

Supplemental Information

If the permit requires reporting of average weekly limitations please follow the following guideline. If the "maximum average concentration" and the "maximum average mass loading" does not occur within the same week, both the highest weekly average concentration and the highest weekly average mass load should be reported, regardless of whether they both occur during the same calendar week.

PART A EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING, AND REPORTING REQUIREMENTS (Cont.)

B. For Outfall 001, Latitude 41° 1' 30", Longitude 78° 24' 1", River Mile Index 173.9, Stream Code 18668

Discharging to West Branch Susquehanna River

which receives wastewater from Clearfield Municipal Authority Wastewater Treatment Facility

1. The permittee is authorized to discharge during the period from Permit Effective Date through 9/30/2010.
2. Based on the anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following nutrient effluent limitations and nutrient monitoring requirements apply (see also Additional Requirements).

Discharge Parameter	Effluent Limitations					Monitoring Requirements	
	Mass Load (lbs)		Concentrations (mg/l)			Minimum ⁽²⁾ Measurement Frequency	Required Sample Type
	Monthly	Annual	Minimum	Monthly Average	Maximum		
Ammonia—N	Report	Report		Report		1/Week	<u>24</u> -hr Comp
Kjeldahl—N	Report			Report		1/Week	<u>24</u> -hr Comp
Nitrate-Nitrite as N	Report			Report		1/Week	<u>24</u> -hr Comp
Total Nitrogen ⁽¹⁾	Report	Report		Report		1/Month	Calculate
Total Phosphorus ⁽¹⁾	Report	Report		Report		1/Week	<u>24</u> -hr Comp
Net Total Nitrogen ⁽¹⁾	Report	Report				1/Month	Calculate
Net Total Phosphorus ⁽¹⁾	Report	Report				1/Month	Calculate

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): Outfall 001

Footnotes:

- (1) See Part C for Chesapeake Bay Requirements
- (2) This is the minimum number of sampling events required. Permittees are encouraged, and it may be advantageous in demonstrating compliance, to perform more than the minimum number of sampling events required.

PART A - EFFLUENT LIMITATIONS, MONITORING PROCEDURES, AND REPORTING REQUIREMENTS (CONT.)

C. For Outfall 001, Latitude 41° 1' 30", Longitude 78° 24' 1", River Mile Index 173.9, Stream Code 18668

Discharging to West Branch Susquehanna River

which receives wastewater from Clearfield Municipal Authority Wastewater Treatment Facility

1. The permittee is authorized to discharge during the period from 10/1/2010 through Permit Expiration.
2. Based on the anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following nutrient effluent limitations and nutrient monitoring requirements apply (see also Additional Requirements).

Discharge Parameter	Effluent Limitations					Monitoring Requirements	
	Mass Load(lbs)		Concentrations (mg/l)			Minimum ⁽²⁾ Measurement Frequency	Required Sample Type
	Monthly	Annual	Minimum	Monthly Average	Maximum		
Ammonia---N	Report	Report		Report		1/Week	<u>24</u> -hr Comp
Kjeldahl---N	Report			Report		1/Week	<u>24</u> -hr Comp
Nitrate-Nitrite as N	Report			Report		1/Week	<u>24</u> -hr Comp
Total Nitrogen ⁽¹⁾	Report	Report		Report		1/Month	Calculate
Total Phosphorus ⁽¹⁾	Report	Report		Report		1/Week	<u>24</u> -hr Comp
Net Total Nitrogen ⁽¹⁾	Report	82191				1/Month	Calculate
Net Total Phosphorus ⁽¹⁾	Report	10959				1/Month	Calculate

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): Outfall 001

Footnotes:

(1) See Part C for Chesapeake Bay Requirements

(2) This is the minimum number of sampling events required. Permittees are encouraged, and it may be advantageous in demonstrating compliance, to perform more than the minimum number of sampling events required.

- D. For Outfall 002 Latitude 41 1' 51" Longitude 78 26' 12" Discharging to West Branch Susquehanna River, River Mile Index 173.9 which receives Lift Station 1 Combined Sewer Overflow from Clearfield Municipal Authority
 For Outfall 014* Latitude 41 1' 15" Longitude 78 26' 29" Discharging to West Branch Susquehanna River, River Mile Index 174.3 which receives East Cherry Street Combined Sewer Overflow from Clearfield Municipal Authority
 For Outfall 020* Latitude 41 1' 17" Longitude 78 26' 34" Discharging to West Branch Susquehanna River, River Mile Index 174.3 which receives West Market Street Combined Sewer Overflow from Clearfield Municipal Authority
 For Outfall 036 Latitude 41 1' 52" Longitude 78 26' 13" Discharging to West Branch Susquehanna River, River Mile Index 173.87 which receives Moose Creek Combined Sewer Overflow from Clearfield Municipal Authority
 For Outfall 038 Latitude 41 0' 10" Longitude 78 27' 33" Discharging to West Branch Susquehanna River, River Mile Index 176.19 which receives Montgomery Run Combined Sewer Overflow from Clearfield Municipal Authority
 For Outfall 039 Latitude 41 1' 24" Longitude 78 26' 0" Discharging to West Branch Susquehanna River, River Mile Index 171.2 which receives Plant Bypass Combined Sewer Overflow from Clearfield Municipal Authority
 For Outfall 040 Latitude 41 1' 40" Longitude 78 25' 13" Discharging to West Branch Susquehanna River, River Mile Index 172.5 which receives R J Corman Rail Yard Combined Sewer Overflow from Clearfield Municipal Authority

1. The permittee is authorized to discharge during the period from 2/1/2008 through 1/31/2013.
2. Based on the anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements, Footnotes and Supplemental Information).

Combined Sewer Overflows	Effluent Limitations	Monitoring Requirements
See Part C 7	Monitor combined sewer overflows (CSOs) for cause, frequency, and duration, to demonstrate compliance with the nine minimum controls and achieve a minimum of 85% capture and treatment of combined sewer annual flow volume collected during precipitation events in accordance with the CSO Long Term Control Plan to comply with water quality standards.	See Part C 7

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): Outfalls 002, 014, 020, 036, 038, 039, 040

*Outfalls 014 and 020 temporarily closed.

II. DEFINITIONS

At Outfall (XXX) means a sampling location in outfall line XXX below the last point at which wastes are added to outfall line (XXX), or where otherwise specified.

Average refers to the use of an arithmetic mean, unless otherwise specified in this permit. 40 CFR 122.41(l) (4) (iii)

Best Management Practices (BMPs) means schedules of activities, prohibitions of practices, maintenance procedures and other management practices to prevent or reduce the pollution to surface waters of the Commonwealth. BMPs also include treatment requirements, operating procedures and practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage. 25 Pa. Code 92.1

Bypass means the intentional diversion of waste streams from any portion of a treatment facility. 40 CFR 122.41(m) (1) (i)

Calendar Week is defined as the seven consecutive days from Sunday through Saturday, unless the permittee has been given permission by the Department to provide weekly data as Monday through Friday based on showing excellent performance of the facility and a history of compliance. In cases when the week falls in two separate months, the month with the most days in that week shall be the month for reporting.

Clean Water Act means the Federal Water Pollution Control Act, as amended. (33 U.S.C.A. §§1251 to 1387).

Composite Sample (for all except GC/MS volatile organic analysis) means a combination of individual samples (at least eight for a 24-hour period or four for an 8-hour period) of at least 100 milliliters (mL) each obtained at spaced time intervals during the compositing period. The composite must be flow-proportional; either the volume of each individual sample is proportional to discharge flow rates, or the sampling interval is proportional to the flow rates over the time period used to produce the composite. EPA Form 2C

Composite Sample (for GC/MS volatile organic analysis) consists of at least four aliquots or grab samples collected during the sampling event (not necessarily flow proportioned). The samples must be combined in the laboratory immediately before analysis and then one analysis is performed. EPA Form 2C

Daily Average Temperature means the average of all temperature measurements made, or the mean value plot of the record of a continuous automated temperature recording instrument, either during a calendar day or during the operating day if flows are of a shorter duration.

Daily Discharge means the discharge of a pollutant measured during a calendar day or any 24-hour period that reasonably represents the calendar day for purposes of sampling. For pollutants with limitations expressed in units of mass, the "daily discharge" is calculated as the total mass of the pollutant discharged over the day. For pollutants with limitations expressed in other units of measurement, the "daily discharge" is calculated as the average measurement of the pollutant over the day. 25 Pa. Code 92.1 and 40 CFR 122.2

Daily Maximum Discharge Limitation means the highest allowable "daily discharge."

Discharge Monitoring Report (DMR) means the DEP or EPA supplied form(s) for the reporting of self-monitoring results by the permittee. 40 CFR 122.2

Estimated Flow means any method of liquid volume measurement based on a technical evaluation of the sources contributing to the discharge including, but not limited to, pump capabilities, water meters and batch discharge volumes.

Geometric Mean means the average of a set of n sample results given by the nth root of their product.

Grab Sample means an individual sample of at least 100 mL collected at a randomly selected time over a period not to exceed 15 minutes. EPA Form 2C

Hazardous Substance means any substance designated under 40 CFR Part 116 pursuant to Section 311 of the Clean Water Act. 40 CFR 122.2

Immersion Stabilization (i-s) means a calibrated device is immersed in the wastewater until the reading is stabilized.

Indirect Discharger means a person who discharges sewage, industrial waste or other pollutants into a treatment works. 25 Pa. Code 92.1

Industrial User means those industries identified in the Standard Industrial Classification Manual, Office of Management and Budget, 1987, as amended and supplemented, under the category "Division D-Manufacturing" and other classes of significant waste producers, as by regulation, the Administrator deems appropriate. 25 Pa. Code 92.1

Instantaneous Maximum means the highest allowable discharge of a concentration of a substance at any one time as measured by a grab sample. 25 Pa. Code 92.1

Measured Flow means any method of liquid volume measurement, the accuracy of which has been previously demonstrated in engineering practice, or for which a relationship to absolute volume has been obtained.

Monthly Average Discharge Limitation means the highest allowable average of "daily discharges" over a calendar month, calculated as the sum of all "daily discharges" measured during a calendar month divided by the number of "daily discharges" measured during that month.

Municipality means a city, town, borough, country, parish, district, association or other public body created by or pursuant to State law and having jurisdiction over disposal of sewage, industrial wastes, or other wastes, or an Indian tribe or an authorized Indian tribal organization, or a designated and approved management agency under §1288 of the Clean Water Act. 40 CFR 122.2

Publicly Owned Treatment Works (POTW) means a treatment works as defined by §212. of the Clean Water Act, owned by a municipality. The definition includes any devices and systems used in the storage, treatment, recycling and reclamation of municipal sewage or industrial wastes of a liquid nature. It also includes sewers, pipes or other conveyances if they convey wastewater to a POTW providing treatment. 25 Pa Code 92.1 and 40 CFR 122.2

Severe Property Damage means substantial physical damage to property, damage to the treatment facilities that causes them to become inoperable, or substantial and permanent loss of natural resources that can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production. 40 CFR 122.41(m) (1) (ii)

Stormwater means the runoff from precipitation, snow melt runoff, and surface runoff and drainage. 25 Pa. Code 92.1

Stormwater Associated With Industrial Activity means the discharge from any conveyance which is used for collecting and conveying stormwater and which is directly related to manufacturing, processing or raw materials storage areas as defined at 40 CFR §122.26(b)(14) and 25 Pa. Code 92.1.

Toxic Pollutant means those pollutants, or combinations of pollutants, including disease-causing agents, which after discharge and upon exposure, ingestion, inhalation or assimilation into any organism, either directly from the environment or indirectly by ingestion through food chains may, on the basis of information available to DEP cause death, disease, behavioral abnormalities, cancer, genetic mutations, physiological malfunctions, including malfunctions in reproduction, or physical deformations in these organisms or their offspring. 25 Pa. Code 92.1

Weekly Average Discharge Limitation means the highest allowable average of "daily discharges" over a calendar week, calculated as the sum of all "daily discharges" measured during a calendar week divided by the number of "daily discharges" measured during that week.

III. SELF-MONITORING, REPORTING AND RECORDKEEPING

A. Representative Sampling 40 CFR 122.41(j) (1)

1. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.
2. Records Retention 40 CFR 122.41(j) (2)

Except for records of monitoring information required by this permit related to the permittee's sludge use and disposal activities which shall be retained for a period of at least 5 years, all records of monitoring activities and results (including all original strip chart recordings for continuous monitoring instrumentation and calibration and maintenance records), copies of all reports required by this permit, and records of all data used to complete the application for this permit shall be retained by the permittee for 3 years from the date of the sample measurement, report or application. The 3-year period shall be extended as requested by DEP or the EPA Regional Administrator.

3. Recording of Results 40 CFR 122.41(j) (3)

For each measurement or sample taken pursuant to the requirements of this permit, the permittee shall record the following information:

- a. The exact place, date and time of sampling or measurements.
- b. The person(s) who performed the sampling or measurements.
- c. The date(s) the analyses were performed.
- d. The person(s) who performed the analyses.
- e. The analytical techniques or methods used; and the associated detection level.
- f. The results of such analyses.

4. Test Procedures 40 CFR 122.41(j) (4)

Facilities that test or analyze environmental samples used to demonstrate compliance with this permit shall be in compliance with laboratory accreditation requirements of Act 90 of 2002 (27 Pa. C.S. §§4101-4113), relating to environmental laboratory accreditation. Unless otherwise specified in this permit, the test procedures for the analysis of pollutants shall be those approved under 40 CFR Part 136 (or in the case of sludge use or disposal, approved under 40 CFR Part 136, unless otherwise specified in 40 CFR Part 503 or Subpart J of 25 Pa. Code Chapter 271), or alternate test procedures approved pursuant to those parts, unless other test procedures have been specified in this permit.

5. Quality/Assurance/Control

In an effort to assure accurate self-monitoring analyses results:

- a. The permittee, or its designated laboratory, shall participate in the periodic scheduled quality assurance inspections conducted by DEP and EPA. 40 CFR 122.41(e), 122.41(i) (3)
- b. The permittee, or its designated laboratory, shall develop and implement a program to assure the quality and accurateness of the analyses performed to satisfy the requirements of this permit, in accordance with 40 CFR Part 136. 40 CFR 122.4(j) (4)

B. Reporting of Monitoring Results

1. The permittee shall effectively monitor the operation and efficiency of all wastewater treatment and control facilities, and the quantity and quality of the discharge(s) as specified in this permit. 40 CFR 122.41(e) and 40 CFR 122.44 (i) (1)
2. Unless instructed otherwise in PART C of this permit, a properly completed DMR must be received by the following address within 28 days after the end of each monthly report period;

Department of Environmental Protection
Northcentral Field Office
Water Management Program
208 West Third Street
Suite 101
Williamsport, PA 17701

NPDES Discharge Monitoring Reports
(3WP42)
Water Protection Division
U.S. EPA – Region III
1650 Arch Street
Philadelphia, PA 19103-2029

3. The completed DMR Form shall be signed and certified by either of the following applicable person, as defined in 25 Pa. Code § 92.23:
- For a corporation - by a principal executive officer of at least the level of vice president, or an authorized representative, if the representative is responsible for the overall operation of the facility from which the discharge described in the NPDES form originates.
 - For a partnership or sole proprietorship - by a general partner or the proprietor, respectively.
 - For a municipality, state, federal or other public agency - by a principal executive officer or ranking elected official.

If signed by a person other than the above, written notification of delegation of DMR signatory authority must be submitted to DEP in advance of or along with the relevant DMR form.

4. If the permittee monitors any pollutant at monitoring points as designated by this permit, using analytical methods described in PART A III.A.4. herein, more frequently than the permit requires, the results of this monitoring shall be incorporated, as appropriate, into the calculations used to report self-monitoring data on the DMR.

C. Reporting Requirements

1. Planned Changes 40 CFR 122.41(l) (1) - The permittee shall give notice to DEP as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is required when:
- a. The alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source in 40 CFR §122.29(b).
 - b. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations in this permit, nor to notification requirements under 40 CFR §122.42(a) (1).
 - c. The alteration or addition results in a significant change in the permittee's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan.

2. Anticipated Noncompliance

The permittee shall give advance notice to DEP of any planned changes in the permitted facility or activity that may result in noncompliance with permit requirements. 40 CFR 122.41(l) (2)

3. Unanticipated Noncompliance or Potential Pollution Reporting

- a. **Immediate Reporting** - The permittee shall report incidents causing or threatening pollution in accordance with the requirements of 25 Pa. Code Section 91.33. If, because of an accident, other activity or incident a toxic substance or another substance which would endanger users downstream from the discharge, or would otherwise result in pollution or create a danger of pollution or would damage property, the permittee shall immediately notify the Department by telephone of the location and nature of the danger and if reasonably possible to do so, notify downstream users of the waters of the Commonwealth to which the substance was discharged. Such notice shall include the location and

nature of the danger. The permittee shall immediately take or cause to be taken steps necessary to prevent injury to property and downstream users of the waters from pollution or a danger of pollution and, in addition, within 15 days from the incident, shall remove the residual substances contained thereon or therein from the ground and from the affected waters of this Commonwealth to the extent required by applicable law.

b. The permittee shall report any noncompliance which may endanger health or the environment in accordance with the requirements of 40 CFR 122.41(l) (6). These requirements include the following obligations:

(i) 24 Hour Reporting - The permittee shall orally report any noncompliance with this permit which may endanger health or the environment within 24 hours from the time the permittee becomes aware of the circumstances. The following shall be included as information which must be reported within 24 hours under this paragraph:

(1) Any unanticipated bypass which exceeds any effluent limitation in the permit;

(2) Any upset which exceeds any effluent limitation in the permit; and

(3) Violation of the maximum daily discharge limitation for any of the pollutants listed in the permit as being subject to the 24-hour reporting requirement. Note see 40 CFR 122.44(g)

(ii) Written Report - A written submission shall also be provided within 5 days of the time the permittee becomes aware of any noncompliance which may endanger health or the environment. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.

(iii) Waiver of Written Report - DEP may waive the written report on a case-by-case basis if the associated oral report has been received within 24 hours from the time the permittee becomes aware of the circumstances which may endanger health or the environment. Unless such a waiver is expressly granted by the Department, the permittee shall submit a written report in accordance with this paragraph. 40 CFR 122.41(l)(6)(iii).

4. Other Noncompliance

The permittee shall report all instances of noncompliance not reported under paragraph C.3 of this section or specific requirements of compliance schedules, at the time DMRs are submitted. The reports shall contain the information listed in paragraph C.3.b. (ii) of this section. 40 CFR 122.41(l)(7)

PART B

I. MANAGEMENT REQUIREMENTS

A. Compliance Schedules 25 Pa. Code 92.55 and 40 CFR 122.47(a)

1. The permittee shall achieve compliance with the terms and conditions of this permit within the time frames specified in this permit.
2. The permittee shall submit reports of compliance or noncompliance, or progress reports as applicable, for any interim and final requirements contained in this permit. Such reports shall be submitted no later than 14 days following the applicable schedule date or compliance deadline. 40 CFR 122.47(a) (4)

B. Permit Modification, Termination, or Revocation and Reissuance

1. This permit may be modified, terminated, or revoked and reissued during its term in accordance with Title 25 Pa. Code 92.51(2) and 40 CFR 122.41(f)
2. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition. 40 CFR 122.41(f)
3. In the absence of DEP action to modify or revoke and reissue this permit, the permittee shall comply with effluent standards or prohibitions established under Section 307(a) of the Clean Water Act for toxic pollutants within the time specified in the regulations that establish those standards or prohibitions. 40 CFR 122.41(a) (1)

C. Duty to Provide Information

1. The permittee shall furnish to DEP, within a reasonable time, any information which DEP may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. 40 CFR 122.41(h)
2. The permittee shall furnish to DEP, upon request, copies of records required to be kept by this permit. 25 Pa. Code 92.51(3)(ii) and 40 CFR 122.41(h)
3. Other Information - Where the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to DEP, it shall promptly submit the correct and complete facts or information. 40 CFR 122.41(l) (8)
4. The permittee shall provide the following information in the annual Municipal Wasteload Management Report, required under the provisions of Title 25 Pa. Code Chapter 94 unless a more stringent time period is required by law, regulation or permit condition in which case the more stringent time period will apply.
 - a. A new introduction of pollutants into the POTW from an indirect discharger which would be subject to Sections 301 and 306 of the Clean Water Act if it were directly discharging pollutants. 40 CFR 122.42(b) (1)
 - b. A substantial change in the volume or character of pollutants being introduced into the POTW by an indirect discharger introducing pollutants into the POTW at the time of issuance of this permit. 40 CFR 122.42(b) (2)
 - c. Information on the quality and quantity of the effluent introduced into the POTW by an industrial user or an indirect discharger and the anticipated impact of the change in the quality and quantity of effluent to be discharged from the POTW. 40 CFR 122.42(b)(3)

- d. The identity of the industrial users served by the POTW which are subject to pretreatment standards adopted under Section 307(b) of the Clean Water Act; the POTW shall also specify the total volume of discharge and estimate concentration of each pollutant discharged into the POTW by the industrial user. 25 Pa. Code 92.53(c)
- e. The POTW shall require industrial users of the treatment works to comply with the reporting requirements of Sections 204(b), 307, and 308 of the Clean Water Act and regulations thereunder. 25 Pa. Code 92.53(c)

D. Proper Operation and Maintenance

1. The permittee shall employ operator's certified in compliance the Water and Wastewater Systems Operators Certification Act (63 P.S. §§1001-1015.1).
2. The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the terms and conditions of this permit. Proper operation and maintenance includes, but is not limited to, adequate laboratory controls including appropriate quality assurance procedures. This provision also includes the operation of backup or auxiliary facilities or similar systems that are installed by the permittee, only when necessary to achieve compliance with the terms and conditions of this permit. 40 CFR 122.41 (e)

E. Duty to Mitigate

The permittee shall take all reasonable steps to minimize or prevent any discharge, sludge use or disposal in violation of this permit that has a reasonable likelihood of adversely affecting human health or the environment. 40 CFR 122.41(d)

F. Bypassing

1. Bypassing Not Exceeding Permit Limitations - The permittee may allow a bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions in paragraphs two, three and four of this section. 40 CFR 122.41(m) (2)
2. Other Bypassing - In all other situations, bypassing is prohibited and DEP may take enforcement action against the permittee for bypass unless:
 - a. A bypass is unavoidable to prevent loss of life, personal injury or "severe property damage." 40 CFR 122.41(m) (4) (i) (A);
 - b. There are no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate backup equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance. 40 CFR 122.41(m) (4) (i) (B); and
 - c. The permittee submitted the necessary notice required in F.4.a. and b. below. 40 CFR 122.41(m) (4) (i) (C)
3. DEP may approve an anticipated bypass, after considering its adverse effects, if DEP determines that it will meet the conditions listed in F.2. above. 40 CFR 122.41(m) (4) (ii)
4. Notice
 - a. Anticipated Bypass – If the permittee knows in advance of the need for a bypass, it shall submit prior notice, if possible, at least 10 days before the bypass.
 - b. Unanticipated Bypass

- (i) The permittee shall submit immediate notice of an unanticipated bypass causing or threatening pollution. The notice shall be in accordance with PART A III.C.3a.
- (ii) The permittee shall submit oral notice of any other unanticipated bypass within 24 hours, regardless of whether the bypass may endanger health or the environment or whether the bypass exceeds effluent limitations. The notice shall be in accordance with PART A III.C.3b.

II. PENALTIES AND LIABILITY

A. Violations of Permit Conditions

Any person violating Sections 301, 302, 306, 307, 308, 318 or 405 of the Clean Water Act or any permit condition or limitation implementing such sections in a permit issued under Section 402 of the Act is subject to civil, administrative and/or criminal penalties as set forth in 40 CFR §122.41(a)(2).

Any person or municipality, who violates any provision of this permit; any rule, regulation or order of DEP; or any condition or limitation of any permit issued pursuant to the Clean Streams Law, is subject to criminal and/or civil penalties as set forth in Sections 602, 603 and 605 of the Clean Streams Law.

B. Falsifying Information

Any person who does any of the following:

- Falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under this permit, or
- Knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit (including monitoring reports or reports of compliance or noncompliance)

Shall, upon conviction, be punished by a fine and/or imprisonment as set forth in 18 Pa.C.S.A § 4904 and 40 CFR §122.41(j)(5) and (k)(2).

C. Liability

Nothing in this permit shall be construed to relieve the permittee from civil or criminal penalties for noncompliance pursuant to Section 309 of the Clean Water Act or Sections 602, 603 or 605 of the Clean Streams Law.

Nothing in this permit shall be construed to preclude the institution of any legal action or to relieve the permittee from any responsibilities, liabilities or penalties to which the permittee is or may be subject to under the Clean Water Act and the Clean Streams Law.

D. Need to Halt or Reduce Activity Not a Defense

It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. 40 CFR 122.41(c)

III. OTHER RESPONSIBILITIES

A. Right of Entry

Pursuant to Sections 5(b) and 305 of Pennsylvania's Clean Streams Law, and Title 25 Pa. Code Chapter 92 and 40 CFR §122.41(i), the permittee shall allow authorized representatives of DEP and EPA, upon the presentation of credentials and other documents as may be required by law:

1. To enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit; 25 Pa. Code 92.51(3)(i) and 40 CFR 122.41(i) (1)
2. To have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit; 25 Pa. Code 92.51(3)(ii) and 40 CFR 122.41(i) (2)
3. To inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices or operations regulated or required under this permit; and 40 CFR 122.41(i)(3)
4. To sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the Clean Water Act or the Clean Streams Law, any substances or parameters at any location. 40 CFR 122.41(i) (4)

B. Transfer of Permits

1. Transfers by modification. Except as provided in paragraph 2 of this section, a permit may be transferred by the permittee to a new owner or operator only if this permit has been modified or revoked and reissued, or a minor modification made to identify the new permittee and incorporate such other requirements as may be necessary under the Clean Water Act. 40 CFR 122.61(a)
2. Automatic transfers. As an alternative to transfers under paragraph 1 of this section, any NPDES permit may be automatically transferred to a new permittee if:
 - a. The current permittee notifies DEP at least 30 days in advance of the proposed transfer date in paragraph 2.b. of this section; 25 Pa. Code 92.71a(1) and 40 CFR 122.61(b)(1)
 - b. The notice includes the appropriate DEP transfer form signed by the existing and new permittees containing a specific date for transfer of permit responsibility, coverage and liability between them; and 25 Pa. Code 92.71a(2) and 40 CFR 122.61(b)(2)
 - c. DEP does not notify the existing permittee and the proposed new permittee of its intent to modify or revoke and reissue this permit, the transfer is effective on the date specified in the agreement mentioned in paragraph 2.b. of this section. 25 Pa. Code 92.71a(3) and 40 CFR 122.61(b) (3)
 - d. The new permittee is in compliance with existing Department issued permits, regulations, orders and schedules of compliance, or that any noncompliance with the existing permits has been resolved by an appropriate compliance action or by the terms and conditions of the permit (including compliance schedule set forth in the permit), consistent with § 92.55 (relating to schedules of compliance) and other appropriate Department regulations. 25 Pa. Code 92.71a(4)
3. In the event DEP does not approve transfer of this permit, the new owner or controller must submit a new permit application.

C. Property Rights

The issuance of this permit does not convey any property rights of any sort, or any exclusive privilege. 40 CFR 122.41(g)

D. Duty to Reapply

If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must apply for a new permit. 40 CFR 122.21(d)

E. Other Laws

The issuance of this permit does not authorize any injury to persons or property or invasion of other private rights, or any infringement of state or local law or regulations.

PART C

I. SCHEDULE

- A. **Timing For Effective Dates Of Effluent Limitations.** The following schedule applies to effluent limitations in this permit:

Provision Containing Effluent Limitation

Effective Date

Part A.I.A.2

Permit Effective Date through Permit
Expiration

Part A.I.B.2

Permit Effective Date Through 9/30/2010

Part A.I.C.2

10/1/2010 Through Permit Expiration

The permittee shall achieve compliance with all other terms and conditions of this permit upon the effective date of the permit, unless otherwise specified.

- B. **Compliance Schedule.** The permittee shall be in compliance with effluent limitations for Nitrogen and Phosphorus contained in Part A.I.C.2, or terminate this discharge, in accordance with the following schedule:

<u>Activity</u>	<u>Due Date</u>
1. Submit Update to Act 537 Sewage Facilities Plan	N/A
2. Submit WQM Part II Permit Application	11/30/2008
3. Award Contract for Construction or Begin Implementation	8/1/2009
4. Construction or Implementation Progress Report(s)	Quarterly Reporting Required
5. Issue Certification of Substantial Completion (Plant Fully Operational)	9/30/2010
6. Compliance with effluent limitations	9/30/2011

- C. No later than 14 calendar days following the date identified in the above schedule of compliance, the permittee shall submit to the Department a written notice of compliance or non-compliance with the specific schedule requirement(s) to:

Department of Environmental Protection
Water Management Program
Compliance Specialist

Department of Environmental Protection
Northcentral Field Office
Water Management Program
208 West Third Street
Suite 101
Williamsport, PA 17701

- D. Each notice of non-compliance, at a minimum, shall include the following information:

1. A description of the noncompliance.
2. A description of any actions taken or proposed by the permittee to comply with the elapsed schedule requirement.
3. A description of any factors which tend to explain or mitigate the noncompliance.

4. An estimate of the date that compliance with the elapsed schedule requirement will be achieved and an assessment of the probability that the next scheduled requirement will be met on time.
 5. A revised schedule of compliance for Department approval.
- E. The permittee should contact the compliance specialist indicated in the event of anticipated non-compliance with any of a compliance schedule activities listed, seven (7) days prior to the due date of the activity.

II. CHESAPEAKE BAY NUTRIENT REQUIREMENTS

A. General

1. The Net Total Nitrogen and Net Total Phosphorus mass load effluent limitations in Part A.I.B and Part A.I.C are required in order to meet the downstream water quality standards of the State of Maryland, as required by 25 Pa. Code Chapter 92, the federal Clean Water Act and implementing regulations. These effluent limitations do not reflect credits applied or sold or offsets applied, during this permit cycle.
2. The Total Nitrogen and Total Phosphorus Mass Load (actual mass load being discharged) shall be reported in the monthly Supplemental Discharge Monitoring Reports ("Supplemental DMR"). The total mass load will not equal the net total mass load if credits are applied or sold, or if offsets are applied. The mass loads for compliance purposes are "Net Total Nitrogen" and "Net Total Phosphorus" reported as pounds per year on the Discharge Monitoring Report. Instructions for tracking credits and offsets can be found in Part C.II.C.10 – Tracking Offsets and Credits. The number of credits purchased can be determined by viewing the Department's Nutrient Trading Website at <http://www.dep.state.pa.us> Keyword "Nutrient Trading". The number of credits applied or sold, or offsets applied may change during the compliance year and subsequent truing period.
3. The Definitions in paragraph B apply to terms used in part A and in the Supplemental DMR forms.
4. The Annual Nutrient Summary DMR shall be submitted no later than November 28th following the end of a compliance year for determination of compliance with the Net Total Nitrogen and Net Total Phosphorus Effluent Limits.

B. Definitions

1. Monthly Total Mass Load (lbs) = The sum of the actual daily discharge loads (lb/d) divided by the number of samples per month multiplied by the number of days in the month. Daily discharge load (lb/d) = Daily flow (MGD) on the day of sampling, multiplied by that day's sample concentration (mg/l) multiplied by 8.34.
2. Annual Total Mass Load (lbs) = The sum of the Monthly Total Mass Loads for one year beginning October 1st and ending September 30th.
3. Total Nitrogen = Kjeldahl-N plus Nitrate-Nitrite as N.
4. Compliance Year = The year long period starting October 1 and ending September 30. The compliance year will be named for the year in which it ends. Example: The period of October 1, 2010 through September 30, 2011 is compliance year 2011.
5. Truing period = The time allowed at the end of each compliance year for any entity to come into compliance through the application of credits towards the Net Total Mass Loads. This truing period will start on October 1st and end on November 28th of the same calendar year. During this period, compliance for the specified year may be achieved by using registered credits that were generated during that compliance year. Example: Credits that are used to achieve compliance in compliance year 2011 must have been generated during compliance year 2011.

6. Monthly Net Mass Load = Monthly Total Mass Load + Total Credits sold during the month – Total Credits applied during the month – (Offsets applied/12)
7. Annual Net Mass Load (lb/year) = The sum of the Monthly Net Mass Loads for one year beginning October 1st and ending September 30th.
8. Certification: written approval by the Department for the use of proposed or implemented activities to generate credits and/or offsets. Certifications are based on at least (1) a credit or offset proposal to be submitted describing the qualifying activities that will reduce the nutrient loadings delivered to the Chesapeake Bay, (2) the calculation to quantify the pounds of reductions expected and (3) a verification plan that, when implemented, ensures that the qualifying nutrient reduction activities have taken place..
9. Verification: implementation of the verification plan contained in a certified credit or offset proposal as required by the Department. Verification plans require annual submittal of documentation to the Department that demonstrates that the qualifying nutrient reduction activities have taken place for the applicable compliance year.
10. Registration: approval by the Department of the use of credits or offsets in a permit. Registration will not occur until credits have been certified and verified, and for credits a trading contract has been submitted to the Department. The Department will register credits on an annual basis for use during the compliance year in which the qualifying nutrient reduction activities have taken place, and provide such credits with an annual registry number for reporting and tracking purposes.

C. Nutrient Credits and Offsets

1. Credit = The unit of compliance that corresponds with a pound of reduction of TP, TN or sediment as recognized by the Department which, when registered by the Department, may be used to comply with effluent limits.
2. Offset = Verb - The act of reducing the aggregate production of nutrients from an action or activity by use of a complimentary action, activity or technology on that site or directly related to the activity.
Noun - The load in pounds of nitrogen or phosphorus created by an action, activity or technology that is available to apply against the proposed load to be generated. Offsets are not the same as credits as they cannot be directly bought, sold or transferred between owners, projects, or properties.
3. The permittee is authorized to apply nitrogen and phosphorus credits to this permit in order to comply with the Net Total Nitrogen and Net Total Phosphorus annual mass load effluent limits, when the credits are recognized by the Department through a trading program administered by the Department pursuant to "Final Trading of Nutrient and Sediment Reduction Credits – Policy and Guidelines," including all Attachments and Appendices.
4. Credits may be applied to the compliance obligations of this permit up until November 28 of the calendar year at the end of the current compliance period (e.g., if the period is the 12 months following 9/30/2010, credits may be applied up until 11/28/2011).
5. Whenever credits are applied or sold report the following, using the Supplemental DMR form:
 - Provide the registry number and trade effective dates.
 - Provide the type (nitrogen, phosphorus) and the number of credits purchased or sold of each.
6. Any time a contract expires during the term of this permit, the Department must be notified 30 days prior to the contract expiration date and either a new contract provided or a discussion on how compliance with this permit will be achieved.

7. All credit transactions must be on the DEP's Trading website which can be viewed at www.dep.state.pa.us Keyword listed "Nutrient Trading".
8. Offsets approved by DEP are to be reported and used in calculating the net monthly mass load.
9. All credits must be registered by the Department and verified for the year in which they are used for compliance with this permit.
10. Tracking Offsets and Credits:
 - a. Credits – the use of credits shall be tracked on supplemental DMR forms provided with this permit. As identified on the forms entitled *DMR Supplemental-Nitrogen* and *DMR Supplemental-Phosphorus* the forms shall be submitted when a registered credit is used to satisfy effluent limits. Additionally, the *Annual Nutrient Summary DMR* shall be submitted no later than November 28th following the end of the compliance year. Credits are only for the compliance year in which they are used and must be reported each year.
 - b. Offsets – the use of offsets shall be tracked on supplemental DMR forms provided with this permit. As identified on the forms entitled *DMR Supplemental-Nitrogen* and *DMR Supplemental-Phosphorus*, the forms shall be submitted when offsets are claimed. Additionally, the *Annual Nutrient Summary DMR* shall be submitted no later than November 28th following the end of the compliance year. Some offsets will be deemed as permanent and can be claimed each year. Offsets must be reported each year during the permit cycle. Offsets deemed to be permanent can be used to adjust cap loads in future permits.

If an offset is approved during the compliance year, the offset generated shall be divided by twelve and applied to each monthly net mass load after the offset is approved. For example, 40-homes formerly utilizing on-lot systems are placed on public sanitary sewer service. The nitrogen offset of 25 lbs/year per home would be applicable. The offsets are approved in May of the compliance year, so the offset would be applied as follows:

$$(40\text{-homes} \times 25 \text{ lbs. / home}) / 12 \text{ months} = 83 \text{ lbs/month}$$

For each month following approval of the offset, 83 lbs of nitrogen will be applied as an offset each month to the Monthly Net Mass Load.

- III. No storm water from pavements, area ways, roofs, foundation drains or other sources shall be directly admitted to the sanitary sewers associated with the herein approved discharge.
- IV. The approval herein given is specifically made contingent upon the permittee acquiring all necessary property rights by easement or otherwise, providing for the satisfactory construction, operation, maintenance and replacement of all sewers or sewerage structures associated with the herein approved discharge in, along, or across private property, with full rights of ingress, egress and regress.
- V. If, in the opinion of the Department, by reason of change in the character of wastes or increased load upon the treatment facilities, or changed use or condition of the receiving body of water, or otherwise, the said effluent ceases to be satisfactory or the treatment facilities shall have created public nuisance, then upon notice by the Department the right herein granted to discharge such effluent shall cease and become null and void unless within the time specified by the Department, the permittee shall adopt such remedial measures as will produce an effluent which, in the opinion of the Department, will be satisfactory for discharge into the said receiving body of water.
- VI. Collected screenings, slurries, sludges, and other solids shall be handled and disposed of in compliance with 25 Pa. Code, Chapter 75, and in a manner equivalent to the requirements indicated in Chapters 271, 273, 275, 283, and 285 (relating to permits and requirements for landfilling, land application, incineration, and storage of sewage sludge), Federal Regulation 40 CFR 257, Pennsylvania Clean Streams Law, Pennsylvania Solid Waste Management Act of 1980, and the Federal Clean Water Act and its amendments.

The permittee is responsible to obtain or assure that contracted agents have all necessary permits and approvals for the handling, storage, transport and disposal of solid waste materials generated as a result of wastewater treatment.

VII. MANAGEMENT AND CONTROL OF COMBINED SEWER OVERFLOWS

Combined sewer overflows (CSOs) are allowed to discharge only in compliance with this permit when flows in combined sewer systems exceed the design capacity of the conveyance or treatment facilities of the system. Overflows that occur without an accompanying precipitation event or snowmelt are termed "dry weather overflows" and are prohibited. CSOs are point source discharges that must be provided with control measures in accordance with the Federal Clean Water Act and the 1994 National CSO Policy.

The point source discharge locations (outfalls) identified in the application submitted by the permittee serve as known combined sewer overflow locations on the permittee sewer system.

A. Continued Implementation of Technology-Based Nine Minimum Controls

Upon issuance of this permit, the permittee shall continue the implementation of the NMCs, demonstrate system wide compliance with the NMCs and submit discharge monitoring reports and annual reports to the Department with appropriate documentation. The permittee's NMC documentation report is incorporated in this permit and the NMCs are listed here:

1. Proper operation and maintenance;
2. Maximum use of the collection system for storage;
3. Review/Modification of the pre-treatment program;
4. Maximization of flow to the POTW for treatment;
5. Elimination of dry weather CSOs;
6. Controls of solids and floatables;
7. Pollution prevention programs;
8. Public notification of CSO occurrences/impacts;
9. Monitoring to effectively characterize CSO impacts.

The Department will use the EPA guidance document entitled "Guidance For Nine Minimum Controls" (EPA 832-B-95-003), dated May 1995, and specific comments provided during review of the NMC documentation reports to determine continued compliance with the CSO permit requirements.

B. Implementation Of Water Quality-Based Long Term Control Plan (LTCP)

The long term goal of the LTCP requirements in this permit is to achieve compliance with the state water quality standards upon completion of the LTCP implementation. The CSO discharge(s) shall comply with the performance standards of the selected CSO controls and shall comply with the water quality standards found in Chapter 93. When additional CSO-related information and data becomes available to revise water quality-based effluent limitations, the permit should be revised, as appropriate, to reflect the new effluent limitations.

Upon issuance of this permit, the permittee shall continue the implementation of the approved LTCP, demonstrate system-wide compliance with the LTCP's installed alternatives and submit with the Annual Report referenced in paragraph C.2 below, annual progress reports on implementation.

The permittee shall continue to implement its approved long term control plan (LTCP). The LTCP, at a minimum, shall incorporate the following requirements:

1. Continued implementation of the nine minimum controls;
2. Protection of sensitive areas (recreation areas, public water supply, unique ecological habitat, etc.);
3. Public participation in developing the LTCP;
4. The selected CSO controls should include a post-construction monitoring program plan adequate to verify compliance with water quality standards and protection of designated uses as well as to ascertain the effectiveness of CSO controls. This water quality compliance monitoring program should include a plan to be approved by the NPDES authority that details the monitoring protocols to be followed.

The LTCP is described in the EPA's guidance document entitled "Guidance For Long Term Control Plan" (EPA 832-B-95-002), dated September 1995. Using a compliance monitoring program, the permittee shall periodically review the effectiveness of the LTCP and propose any changes or revisions to the LTCP to the Department for review and approval before its implementation. This shall be done at each permit renewal and as needed during the permit term.

The permittee shall implement, inspect, monitor and effectively operate and maintain the CSO controls identified in the LTCP, which is incorporated herein by reference.

C. Monitoring And Reporting Requirements

1. Discharge Monitoring Report for Combined Sewer Overflows (DMR for CSOs)

The permittee shall record data on CSO discharges in the format specified in the Department's DMR for CSOs attached to this permit. The data shall be submitted to the appropriate regional office of the Department 28 days following a month in which one or more CSO discharges occurred. For CSOs that are part of a permitted POTW, the DMR for CSOs must be submitted with the Permittee's regular DMR. Copies of DMRs for CSOs must be retained at the STP site or municipality for at least five (5) years.

2. Annual CSO Status Report

On March 31 of each year, an Annual CSO Status Report shall be submitted to the Department with the annual "Municipal Wasteload Management Report" required by 25 Pa. Code Chapter 94, Section 94.12. For a satellite CSO system, a copy of the annual report shall also be provided to the POTW providing treatment for its wastewater.

- i. The Annual CSO Status Report shall:
 - a. Provide a summary of the frequency, duration and volume of the CSO discharges for the past calendar year,
 - b. Provide the operational status of overflow points,
 - c. Provide an identification of known in-stream water quality impacts, their causes, and their effects on downstream water uses,
- d. Summarize all actions taken to implement the NMCs and the LTCP and their effectiveness, and
 - e. Evaluate and provide a progress report on implementing and necessary revisions to the NMC and LTCP.
- ii. Specifically, the following CSO-related information shall be included in the report:
 - a. Rain gauge data - total inches (to the nearest 0.01 inch) that caused each CSO discharge being reported in the supplemental DMR for CSOs.
 - b. Inspections and maintenance.

- Total number of regulator inspections conducted during the period of the report (reported by drainage system).
- A list of blockages (if any) corrected or other interceptor maintenance performed, including location, date and time discovered, date and time corrected, and any discharges to the stream observed and/or suspected to have occurred.

c. Dry weather overflows

Dry weather CSO discharges are prohibited. Immediate telephone notification to DEP of such discharges is required in accordance with 25 Pa. Code, Section 91.33. Indicate location, date and time discovered, date and time corrected/ceased, and action(s) taken to prevent their reoccurrence. A plan to correct this condition and schedule to implement the plan must be submitted with the DMR for CSOs.

d. Wet weather overflows

- For all locations that have automatic level monitoring of the regulators, report all exceedances of the overflow level during the period of the report, including location, date, time, and duration of wet weather overflows.
- For all locations at which flows in the interceptors can be controlled by throttling and/or pumping, report all instances when the overflow level was reached or the gates were lowered. For each instance, provide the location, date, time, and duration of the overflow.

D. Area-Wide Planning/Participation Requirement

Where applicable, the permittee shall cooperate with and participate in any interconnected CSO system's NMCs and LTCP activities being developed and/or carried out by the operator(s) of these systems, and shall participate in implementing applicable portions of the approved NMC and LTCP for these systems.

E. Permit Reopener Clause

The Department reserves the right to modify, revoke and reissue this permit as provided pursuant to 40 CFR 122.62 and 124.5 for the reasons set forth in 25 Pa. Code Section 92.51(2) and for the following reasons:

1. To include new or revised conditions developed to comply with any State or Federal law or regulation that addresses CSOs and that is adopted or promulgated subsequent to the effective date of this permit.
2. To include new or revised conditions if new information indicates that CSO controls imposed under the permit have failed to ensure the attainment of State Water Quality Standards.
3. To include new or revised conditions based on new information resulting from implementation of the LTCP or other plans or data.

F. Combined Sewer Overflow Compliance Schedule

The permittee shall complete the above CSO activities in accordance with the following compliance schedule:

Schedule Activity Description

Compliance Due Date

Continue Implementation of the NMCs

Permit effective date

Continue Implementation of the LTCP

Permit effective date

Submit Annual CSO Status Report to Department
with Chapter 94 Report

March 31 of each year

Submit DMR for CSOs

Within 28 days of the end
of a month

PERMITTEE NAME/ADDRESS (Include
Facility Name/Location if different)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

NAME Clearfield Municipal Authority
ADDRESS 107 East Market Street
Clearfield, PA 16830

PA0026310
PERMIT NUMBER

001
DISCHARGE #

Permit Expiration Date:

1/31/2013

Permit Renewal Application must be received
180 days prior to expiration

FACILITY
LOCATION Lawrence Township, Clearfield County
ATTN:

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY

NOTE: Read Instructions Before Completing This Form

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
Flow	SAMPLE MEASUREMENT				*****	*****	*****				
	PERMIT REQUIREMENT	Report Monthly Average	Report Daily Maximum	MGD	*****	*****	*****			Continuous	Meter
pH	SAMPLE MEASUREMENT	*****	*****			*****					
	PERMIT REQUIREMENT	*****	*****	*****	6.0 Minimum	*****	9.0 Inst Maximum	STD Units		1/Day	Grab
CBOD ₅	SAMPLE MEASUREMENT				*****						
	PERMIT REQUIREMENT	938 Monthly Average	1501 Weekly Average	lbs/day	*****	25 Monthly Average	40 Weekly Average	mg/l		2/Week	24 Hr Comp
TSS	SAMPLE MEASUREMENT				*****						
	PERMIT REQUIREMENT	1126 Monthly Average	1689 Weekly Average	lbs/day	*****	30 Monthly Average	45 Weekly Average	mg/l		2/Week	24 Hr Comp
Fecal Coliforms 5/1-9/30 (10/1-4/30)	SAMPLE MEASUREMENT	*****	*****		*****		*****				
	PERMIT REQUIREMENT	*****	*****	*****	*****	200 (2000) Geometric Mean	*****	# Col/ 100 ml		2/Week	Grab
Total Residual Chlorine	SAMPLE MEASUREMENT	*****	*****		*****		*****				
	PERMIT REQUIREMENT	*****	*****	*****	*****	0.5 Monthly Average	*****	mg/l		1/Day	Grab
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.					TELEPHONE		DATE		
							AREA CODE	NUMBER	YEAR	MO	DAY
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT									

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

PERMITTEE NAME/ADDRESS (Include
Facility Name/Location if different)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

NAME Clearfield Municipal Authority

ADDRESS 107 East Market Street

Clearfield, PA 16830

PA0026310

PERMIT NUMBER

001

DISCHARGE #

Permit Expiration Date:

1/31/2013

Permit Renewal Application must be received

180 days prior to expiration

FACILITY

LOCATION Lawrence Township, Clearfield County

ATTN:

MONITORING PERIOD

YEAR	MO	DAY	TO	YEAR	MO	DAY

NOTE: Read Instructions Before Completing This Form

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE									
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS												
Ammonia-N	SAMPLE MEASUREMENT		Report on Annual Supplemental	lbs	*****		*****	mg/l												
	PERMIT REQUIREMENT	Report Monthly Total	Annual Total		*****	Report Monthly Average	*****			1/Week	24 Hr Comp									
Kjeldahl-N	SAMPLE MEASUREMENT		*****	lbs	*****		*****	mg/l												
	PERMIT REQUIREMENT	Report Monthly Total	*****		*****	Report Monthly Average	*****			1/Week	24 Hr Comp									
Nitrate/ Nitrite-N	SAMPLE MEASUREMENT		*****	lbs	*****		*****	mg/l												
	PERMIT REQUIREMENT	Report Monthly Total	*****		*****	Report Monthly Average	*****			1/Week	24 Hr Comp									
Total Nitrogen	SAMPLE MEASUREMENT		Report on Annual Supplemental	lbs	*****		*****	mg/l												
	PERMIT REQUIREMENT	Report Monthly Total	Annual Total		*****	Report Monthly Average	*****			1/Month	Calculate									
Total Phosphorus	SAMPLE MEASUREMENT		Report on Annual Supplemental	lbs	*****		*****	mg/l												
	PERMIT REQUIREMENT	Report Monthly Total	Annual Total		*****	Report Monthly Average	*****			1/Week	24 Hr Comp									
Net Total Nitrogen	SAMPLE MEASUREMENT		Report on Annual Supplemental		*****	*****	*****													
	PERMIT REQUIREMENT	Report Monthly Total	Annual Total		*****	*****	*****			1/Month	Calculate									
Net Total Phosphorus	SAMPLE MEASUREMENT		Report on Annual Supplemental		*****	*****	*****													
	PERMIT REQUIREMENT	Report Monthly Total	Annual Total		*****	*****	*****			1/Month	Calculate									
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.				TELEPHONE		DATE												
TYPED OR PRINTED																				
		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT				AREA CODE	NUMBER	YEAR	MO	DAY										

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

PERMITTEE NAME/ADDRESS (Include
Facility Name/Location if different)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

NAME Clearfield Municipal Authority

ADDRESS 107 East Market Street

Clearfield, PA 16830

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LOCATION Lawrence Township, Clearfield County

ATTN:

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY

NOTE: Read Instructions Before Completing This Form

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE						
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS									
Ammonia-N	SAMPLE MEASUREMENT		Report on Annual Supplemental	lbs	*****		*****	mg/l									
	PERMIT REQUIREMENT	Report Monthly Total	Annual Total		*****	Report Monthly Average	*****			1/Week	24 Hr Comp						
Kjeldahl-N	SAMPLE MEASUREMENT		*****	lbs	*****		*****	mg/l									
	PERMIT REQUIREMENT	Report Monthly Total	*****		*****	Report Monthly Average	*****			1/Week	24 Hr Comp						
Nitrate/ Nitrite-N	SAMPLE MEASUREMENT		*****	lbs	*****		*****	mg/l									
	PERMIT REQUIREMENT	Report Monthly Total	*****		*****	Report Monthly Average	*****			1/Week	24 Hr Comp						
Total Nitrogen	SAMPLE MEASUREMENT		Report on Annual Supplemental	lbs	*****		*****	mg/l									
	PERMIT REQUIREMENT	Report Monthly Total	Annual Total		*****	Report Monthly Average	*****			1/Month	Calculate						
Total Phosphorus	SAMPLE MEASUREMENT		Report on Annual Supplemental	lbs	*****		*****	mg/l									
	PERMIT REQUIREMENT	Report Monthly Total	Annual Total		*****	Report Monthly Average	*****			1/Week	24 Hr Comp						
Total Net Nitrogen	SAMPLE MEASUREMENT		Report on Annual Supplemental	lbs	*****		*****	mg/l									
	PERMIT REQUIREMENT	Report Monthly Total	82191 Annual Total		*****	Report Monthly Average	*****			1/Month	Calculate						
Total Net Phosphorus	SAMPLE MEASUREMENT		Report on Annual Supplemental	lbs	*****		*****	mg/l									
	PERMIT REQUIREMENT	Report Monthly Total	10959 Annual Total		*****	Report Monthly Average	*****			1/Month	Calculate						
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.					TELEPHONE		DATE								
TYPED OR PRINTED							AREA CODE	NUMBER	YEAR	MO	DAY						
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT																	

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Clearfield Municipal Authority
Lawrence Township, Clearfield County
Watershed 8B

FOR MONTH _____ 20____
NPDES Permit No. **PA0026310**
Renewal application **DUE DATE** is 7/31/2012 and
This permit will **EXPIRE** on 1/31/2013.

DAY	Influent			Process Control		Hauled-In Wastes					
	BOD ₅	BOD ₅	TSS	Sludge Wasted	Aeration MLSS	Septage		Sludge		Other (specify):	
	mg/l	lbs.	mg/l	gallons	mg/l	gallons	lbs BOD ₅	gallons	lbs BOD ₅	gallons	lbs BOD ₅
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											
26											
27											
28											
29											
30											
31											
Avg											

Date: _____

Signature _____

Telephone: () _____

DISCHARGE MONITORING REPORT SUPPLEMENTAL FORM (S)

Clearfield Municipal Authority

Lawrence Township, Clearfield County

Watershed 8B

For the MONTH _____ 20____

NPDES Permit No. PA0026310 Outfall No. 001

Renewal application DUE DATE is 7/31/2012.....

This permit will EXPIRE on 1/31/2013.....

DAY	Effluent										
	FLOW (MGD)	Total P mg/l	Total P lbs/day	NH ₃ -N mg/l	NH ₃ -N lbs/day	TKN mg/l	TKN lbs/day	NO ₃ +NO ₂ as N mg/l	NO ₃ +NO ₂ as N lbs/day	Total N (mg/l) TKN + NO ₂ + NO ₃	Total N (lbs/day) TKN + NO ₂ + NO ₃
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
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20											
21											
22											
23											
24											
25											
26											
27											
28											
29											
30											
31											
Avg											
*Total lbs/mo	XXX	XXX		XXX	XXX	XXX		XXX		XXX	

* Calculated by Avg (lbs/day) x total number of days in month
 Number of Days Discharge Occurred = _____

Signature _____ Date: _____

Clearfield Municipal Authority
Lawrence Township, Clearfield County
Watershed 8B

NPDES Permit No. **PA0026310** Outfall No. **001**
Renewal application DUE DATE is 7/31/2012
This permit will EXPIRE on 1/31/2013

DAY	Effluent								Weather/Comments
	CBOD ₅		TSS		pH	D.O.	Fecals	TRC	
	mg/l	lbs/day	mg/l	lbs/day	SU	mg/l	/100 ml	mg/l	
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
Avg							*		

REMARKS: * Fecal Coliform average is reported as Geometric Average.

Laboratory Name: _____ In house? _____

☐ Check here if no biosolids were removed from the plant during the month (otherwise, attach page 4). Signature _____

☐ Check here if there were no noncompliance discharges during the month (otherwise, attach page 5). Date: _____

☐ Check here if there were no credits or offsets applied during the month (otherwise, attach page 6 and 7). Date: _____

SUPPLEMENTAL BIO-SOLIDS REPORT
Clearfield Municipal Authority
Lawrence Township, Clearfield County
Watershed 8B

For ^{the} MONTH _____ 20____
 NPDES Permit **PA0026310**

Biosolids (Sludge) Production Information (prior to incineration)

Hauled as liquid sludge (list each removal event)				Hauled as dewatered sludge (list each removal event)			
Gallons	X % Solids	X Conv. Factor	= Dry Tons	Tons dewatered sludge	X % Solids	X 0.01	= Dry Tons
		X 0.0000417	=		X	X 0.01	=
		X 0.0000417	=		X	X 0.01	=
		X 0.0000417	=		X	X 0.01	=
		X 0.0000417	=		X	X 0.01	=
		X 0.0000417	=		X	X 0.01	=
		X 0.0000417	=		X	X 0.01	=
		X 0.0000417	=		X	X 0.01	=
		X 0.0000417	=		X	X 0.01	=
		X 0.0000417	=		X	X 0.01	=
		X 0.0000417	=		X	X 0.01	=
		X 0.0000417	=		X	X 0.01	=
		X 0.0000417	=		X	X 0.01	=
		X 0.0000417	=		X	X 0.01	=
		X 0.0000417	=		X	X 0.01	=
		X 0.0000417	=		X	X 0.01	=
		X 0.0000417	=		X	X 0.01	=

Biosolids Disposal & Beneficial Use Information

	(List all sites where biosolids are routinely applied or disposed, even if they were not used this month.)			
	SITE 1	SITE 2	SITE 3	SITE 4
Site Name:				
County:				
DEP Permit Number:				
Dry Tons Disposed:				
Gallons Disposed:				
Type of Disposal/Use:*				
Hauler Name:				

* For example, agricultural utilization, composting, landfill, other treatment plant, etc.

For Bio Solids that have been incinerated:

Pre-incineration weight = _____ dry tons
Post-incineration weight = _____ dry tons

Signature

Telephone

Title

Date

Clearfield Municipal Authority
Lawrence Township, Clearfield County
Watershed 8B

1. A noncompliance discharge of _____
occurred on this (these) dates: _____
2. The impact on the receiving water was (circle those that apply): 1. **Foam** 2. **Sheen** 3. **Discoloration** 4. **Odors** 5. **Solids deposited** 6. **Fishkill**
7. **Did not determine** 8. **Other** (describe): _____
3. The cause of the noncompliance discharge was: _____

4. The noncompliance discharge continued from the period of (date) _____ and (time) _____
to (date) _____ and (time) _____ or will continue until (date) _____
and (time) _____
5. The following action is being taken to **prevent** a recurrence or another noncompliance discharge of this nature: _____

6. The following analyses were made to determine the impact and the extent of the impact upon the receiving waters (effluent, stream, other): _____

7. The Department of Environmental Protection was notified of the noncompliance on (date) _____ at (time) _____
The person(s) contacted was (were): _____

Signature _____ Title _____ Date _____

Clearfield Municipal Authority
Lawrence Township, Clearfield County

NPDES Permit **PA0026310**

8B Watershed

Total Nitrogen - Credits

Registry Number and Contract Effective Dates	Purchased (lbs/yr)	Sold (lbs/yr)	Date Approved
Total			

Total Nitrogen - Offsets

Source	Amount (lbs/yr)	Date Approved
Total		

Monthly Total Nitrogen Load		lbs
Monthly Net Total Nitrogen Load		lbs

Monthly Total Nitrogen Load (lbs) = the sum of the Daily Discharge Loads (lb/d) divided by the number of samples per month multiplied by the number of days in the month.

Daily Discharge Load (lb/d) = Daily Flow (MGD) on the day of sampling multiplied by the Daily Sample Concentration (mg/l) multiplied by 8.34.

Monthly Net Total Nitrogen Load (lbs) = Monthly Total Nitrogen Load + Total Credits sold during the month – Total Credits applied during the month – (Offsets Applied/12)

The credits sold or purchased and offsets applied can be utilized the month following the date approved.

Clearfield Municipal Authority
Lawrence Township, Clearfield County

NPDES Permit **PA0026310**

8B Watershed

Total Phosphorous - Credits

Registry Number and Contract Effective Dates	Purchased (lbs/yr)	Sold (lbs/yr)	Date Approved
Total			

Total Phosphorous - Offsets

Source	Amount (lbs/yr)	Date Approved
Total		

Monthly Total Phosphorous Load		lbs
Monthly Net Total Phosphorous Load		lbs

Monthly Total Phosphorus Load (lbs) = the sum of the Daily Discharge Loads (lb/d) divided by the number of samples per month multiplied by the number of days in the month.

Daily Discharge Load (lb/d) = Daily Flow (MGD) on the day of sampling multiplied by the Daily Sample Concentration (mg/l) multiplied by 8.34.

Monthly Net Total Phosphorus Load (lbs) = Monthly Total Phosphorus Load + Total Credits sold during the month – Total Credits applied during the month – (Offsets/12)

The credits sold or purchased and offsets applied can be utilized the month following the date approved.

DISCHARGE MONITORING REPORT SUPPLEMENTAL – Annual Nutrient Summary

For ^{the} Compliance Year _____

Clearfield Municipal Authority
Lawrence Township, Clearfield County
8B Watershed

NPDES Permit **PA0026310**

Month	Monthly Total Mass Load		Credit sold		Credit Purchased		Offsets		Monthly Net Mass Load	
	(Pounds)		(Pounds)		(Pounds)		(Pounds)		(Pounds)	
	TN	TP	TN	TP	TN	TP	TN	TP	TN	TP
Oct										
Nov										
Dec										
Jan										
Feb										
Mar										
Apr										
May										
Jun										
July										
Aug										
Sept										
Totals			XXX	XXX	XXX	XXX	XXX	XXX		
Truing Period Calculations	Annual Total Mass Load (Pounds)		Credit sold (Pounds)		Credit Purchased (Pounds)		Offsets (Pounds)		Annual Net Mass Load (Pounds)	
	Truing Period Adjustment (Oct 1 thru Nov 28)						XXXXXX			

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	<small>I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.</small>	TELEPHONE		DATE			
		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		AREA COD	NUMBER	YEAR	MO
TYPED OR PRINTED							

Annual Net Mass Load after Truing Period = Annual Net Mass Load before Truing Period + Credits Sold in Truing Period - Credits Purchased in Truing Period

Nutrient Summary Supplemental DMR Form shall be submitted by November 28 following the end of the compliance year.

All credits sold or credits purchased shall be accounted for in a lump sum.

All offsets shall be accounted for on a monthly basis. See permit conditions for additional information

FACT SHEET

Clearfield Municipal Authority
NPDES PA0026310
Lawrence Township
Clearfield County
Contact: Jeffrey S. Williams
(814) 765-9609

Prepared by:

Glenn B. Sakiadis, P.E.
Permit Section
Water Management
DEP, NCRO

Department of Environmental Protection
Northcentral Office Field Operations
Water Management
Water Quality Protection Report

Project Description: Sewerage - NPDES Renewal

Application/Permit No. PA0026310

Applicant/Permittee: Clearfield Municipal Authority

Case Name: WWTP

Municipality: Lawrence Township County: Clearfield

Discharge Description:

No.	Source	Avg. Flow MGD	Max. Flow MGD	Continuous C or Intermittent I	Receiving Stream
001	STP	4.5		C	West Branch Susquehanna River
002	CSO discharges				"
008	"				"
011	"				"
014	"				"
018	"				"
020	"				"
036	"				"
038	"				"
039	"				"

Frequency and Duration of Discharge: Outfalls 02-039 are Combined Sewer Overflow locations.

Remarks: The receiving stream is degraded due to acid mine drainage and is on the 2004 Integrated List of All Waters (formerly 303(d) list). Chapter 95.5 applies. The discharge must meet BAT or any water quality-based requirements necessary to protect downstream uses not impaired by acid mine drainage.

Determination of Water Quality-Based Effluent Limits
(Pollution Report)

Outfall No. 001 Lat. 41° 01' 30" Long. 78° 24' 01" Inches 'N' 4.60
 USGS Quad: Clearfield Series Code: 4-10.3 Inches 'W' 3.50
 Stream Code: 18668 RMI: 171.21 Elevation: 1078.7 ft.
 Watershed: 8-B Chest
 Receiving Stream: West Branch Susquehanna River Tributary to: Susquehanna River
 Drainage List: L Classification: WWF Exceptions to Criteria: None

Requirements to Meet W.Q. Standards

Specific Substance	Concentration (mg/l)				Mass (lbs)	
	Monthly Average	Weekly Average	Daily Maximum	Instantaneous Maximum	Monthly Load	Annual Load
CBOD5	25	40		50		
TSS	30	45		60		
Total Residual Chlorine	0.5			1.6		
Kjeldahl-N	Report				Report	
Nitrate/Nitrite-N	Report				Report	
Total Nitrogen	Report				Report	
Total Phosphorus	Report				Report	
Total Net Nitrogen	Report				Report	82191
Total Net Phosphorus	Report				Report	10959

Fecal Coliforms:

(5/1-9/30) 200/100ml as a geometric mean
 (10/1-4/30) 2000/100ml as a geometric mean
 pH 6.0 to 9.0 Std. Units

Remarks: The nearest downstream potable water supply (PWS) considered during the evaluation is the intake located at Milton. This intake is approximately 160 river miles below the discharge; therefore, no limits are needed for Fluoride and Nitrate/Nitrite.

The above limits are based on existing secondary treatment standards. There have not been any significant changes since the previous protection report. The applicant was not required to perform WET testing since the receiving stream is acid affected. The limit for Total Chlorine Residual is based on BAT as per the Department's chlorine minimization strategy. CSO descriptions and locations are included in the permit.

Toxics screening with Pentoxsd 2.0b is attached. There are no significant parameters of concern.

Approvals:	
Reviewer/WQ: Glenn B. Sakiadis GBS	Date: 12/12/06
Chief, Permit Section/WQ: <i>Dana R. Roub</i>	Date: 1/17/07

Water Quality Protection Report
Modeling for Non-Conservative Substances

INPUT INFORMATION

1. Discharger Name: Clearfield MA
2. Reach No.: 1 Total No. of Reaches: 1
3. Reach Length (ft.): 25000
4. Drainage Area @ Head of Reach: 682 mi² Source: 482 W. Br. + 200 Clfd.Ck.
5. Slope of Reach (ft/ft): 0.00273
6. Q7-10 Low Flow: 50.12 cfs Source: B12 @ Curwensville

 Q7-10/sq mi $27/367=0.0735$; $0.0735*682=50.12$ cfs
7. Effluent Flow: 4.5 MGD
8. Width/Depth Ratio: Source:
9. Stream Design Temperature: 25 Source: WWF
10. DO Saturation: Source:
11. Background Stream Quality:

 pH: 7 DO: 8.24 CBOD5: 2 NH3N: 0
12. Specific Stream Standards:

 DO: 6 mg/l Total Phosphorus: N/A
13. Toxicity-Based Ammonia Nitrogen Limit:
14. Deficit due to SOD (if used): N/A
15. Dam Height (if used): N/A
16. *Decay Rates - Kc: 1.5 day⁻¹ Kn: 0.7 day⁻¹
17. Reaeration Rate: Calculated by WQM 6.3
18. Data Attached for: N/A

* Method: Defaults for sewage.

Category 5: Impaired Streams Requiring TMDLs

AssessmentID	Source/Cause	List Date	Tmdl Date	Down RMI	Up RMI	Total Miles	Use Assessed
20030929-1930-JCO	Abandoned Mine Drainage/Metals	1996		2.03	5.26	3.2	Aquatic Life
<u>Stream Name=South Branch Bear Run (Unt 27039) Watershed=08B Code:27039</u>							
20030929-1932-JCO	Abandoned Mine Drainage/Metals	2004		0	1.95	2	Aquatic Life
	Abandoned Mine Drainage/pH	2004					
<u>Stream Name=South Branch Bear Run (Unt 27040) Watershed=08B Code:27040</u>							
20030929-1929-JCO	Abandoned Mine Drainage/pH	2004	2017	0	1.03	1	Aquatic Life
	Abandoned Mine Drainage/Metals	2004	2017				
<u>Stream Name=South Branch Bear Run (Unt 27041) Watershed=08B Code:27041</u>							
20030929-1929-JCO	Abandoned Mine Drainage/Metals	2004	2017	0	0.48	0.5	Aquatic Life
	Abandoned Mine Drainage/pH	2004	2017				
<u>Stream Name=South Branch Bear Run (Unt 27045) Watershed=08B Code:27045</u>							
20030929-1929-JCO	Abandoned Mine Drainage/Metals	2004	2017	0	0.64	0.6	Aquatic Life
	Abandoned Mine Drainage/pH	2004	2017				
<u>Stream Name=South Branch Bear Run (Unt 27046) Watershed=08B Code:27046</u>							
20030929-1929-JCO	Abandoned Mine Drainage/pH	2004	2017	0	0.79	0.8	Aquatic Life
	Abandoned Mine Drainage/Metals	2004	2017				
<u>Stream Name=South Branch Bear Run (Unt 27047) Watershed=08B Code:27047</u>							
20030929-1929-JCO	Abandoned Mine Drainage/Metals	2004	2017	0	0.7	0.7	Aquatic Life
	Abandoned Mine Drainage/pH	2004	2017				
<u>Stream Name=South Branch Bear Run (Unt 27049) Watershed=08B Code:27049</u>							
20030929-1929-JCO	Abandoned Mine Drainage/Metals	2004	2017	0	1.21	1.2	Aquatic Life
	Abandoned Mine Drainage/pH	2004	2017				
<u>Stream Name=South Branch Bear Run (Unt 27051) Watershed=08B Code:27051</u>							
20030929-1929-JCO	Abandoned Mine Drainage/Metals	2004	2017	0	0.89	0.9	Aquatic Life
	Abandoned Mine Drainage/pH	2004	2017				
<u>Stream Name=Walnut Run Watershed=08B Code:27254</u>							
20030812-1200-JCO	Erosion from Derelict Land/Siltation	2004	2017	0	2.67	2.7	Aquatic Life
<u>Stream Name=Walnut Run (Unt 27255) Watershed=08B Code:27255</u>							
20030812-1200-JCO	Erosion from Derelict Land/Siltation	2004	2017	0	1.37	1.4	Aquatic Life
<u>Stream Name=West Branch Susquehanna River Watershed=08B Code:18668</u>							
981026-1520-JLR	Road Runoff/Siltation	2002	2015	172.8	175	2.6	Aquatic Life
	Upstream Impoundment/Siltation	2002	2015				
	Upstream Impoundment/Nutrients	2002	2015				
20020807-1135-JLR	Abandoned Mine Drainage/Siltation	2004	2017	218	231	12.5	
	Abandoned Mine Drainage/Metals	2004	2017				
2347	Abandoned Mine Drainage/Metals	1996	2009	230.5	243		
<u>Stream Name=West Branch Susquehanna River (Unt 26608) Watershed=08B Code:26608</u>							
981026-1625-JLR	Abandoned Mine Drainage/Metals	2002	2015	0	1.03	1	Aquatic Life
	Abandoned Mine Drainage/pH	2002	2015				
<u>Stream Name=West Branch Susquehanna River (Unt 26622) Watershed=08B Code:26622</u>							
990504-1106-JLR	Abandoned Mine Drainage/pH	2004		0	1.81	1.8	Aquatic Life
	Abandoned Mine Drainage/Metals	2004					

Clearfield MA – Analysis Screening
March 2006

Sample (mg/l)	Fe	Mn	Zn	Hg
1	0.32	0.54	0.03	0.0001
2	0.42	0.69	0.05	0.0003
3	0.36	0.58	0.04	0.0004

PENTOXSD

Modeling Input Data

Stream Code	RMI	Elevation (ft)	Drainage Area (sq mi)	Slope	PWS With (mgd)	Apply FC
18668	171.20	1078.70	682.00	0.00000	0.00	<input checked="" type="checkbox"/>

Stream Data													
LFY	Trib Flow	Stream Flow	WD Ratio	Rch Width	Rch Depth	Rch Velocity	Rch Trav Time	Tributary Hard	pH	Stream Hard	pH	Analysis Hard	pH
(cfsm)	(cfs)	(cfs)		(ft)	(ft)	(fps)	(days)	(mg/L)		(mg/L)		(mg/L)	
Q7-10	0.0735	0	0	0	0	0	0	100	7	0	0	0	0
Qh		0	0	0	0	0	0	100	7	0	0	0	0

Discharge Data												
Name	Permit Number	Existing Disc Flow	Permitted Disc Flow	Design Disc Flow	Reserve Factor	AFC PMF	CFC PMF	THH PMF	CRL PMF	Disc Hard	Disc pH	
		(mgd)	(mgd)	(mgd)						(mg/L)		
Clearfield MA	PA0026310	0	0	4.5	0	0	0	0	0	100	7	

Parameter Data											
Parameter Name	Disc Conc	Trib Conc	Disc Daily CV	Disc Hourly CV	Steam Conc	Stream CV	Fate Coef	FOS	Crit Mod	Max Disc Conc	
	(µg/L)	(µg/L)			(µg/L)					(µg/L)	
MANGANESE	690	0	0.5	0.5	0	0	0	0	1	0	
MERCURY	0.4	0	0.5	0.5	0	0	0	0	1	0	
TOTAL IRON	420	0	0.5	0.5	0	0	0	0	1	0	
ZINC	50	0	0.5	0.5	0	0	0	0	1	0	

Stream Code	RMI	Elevation (ft)	Drainage Area (sq mi)	Slope	PWS With (mgd)	Apply FC
18668	166.47	1010.50	700.00	0.00000	0.00	<input checked="" type="checkbox"/>

Stream Data

LFY	Trib Flow	Stream Flow	WD Ratio	Rch Width	Rch Depth	Rch Velocity	Rch Trav Time	Tributary Hard	pH	Stream Hard	pH	Analysis Hard	pH
(cfsm)	(cfs)	(cfs)		(ft)	(ft)	(fps)	(days)	(mg/L)		(mg/L)		(mg/L)	
Q7-10	0.0735	0	0	0	0	0	0	100	7	0	0	0	0
Qh		0	0	0	0	0	0	100	7	0	0	0	0

Discharge Data

Name	Permit Number	Existing Disc Flow	Permitted Disc Flow	Design Disc Flow	Reserve Factor	AFC PMF	CFC PMF	THH PMF	CRL PMF	Disc Hard	Disc pH
		(mgd)	(mgd)	(mgd)						(mg/L)	
		0	0	0	0	0	0	0	0	100	7

Parameter Data

Parameter Name	Disc Conc	Trib Conc	Disc Daily CV	Disc Hourly CV	Stream Conc	Stream CV	Fate Coef	FOS	Crit Mod	Max Disc Conc
	(µg/L)	(µg/L)			(µg/L)					(µg/L)
MANGANESE	0	0	0.5	0.5	0	0	0	0	1	0
MERCURY	0	0	0.5	0.5	0	0	0	0	1	0
TOTAL IRON	0	0	0.5	0.5	0	0	0	0	1	0
ZINC	0	0	0.5	0.5	0	0	0	0	1	0

PENTOXSD Analysis Results

Hydrodynamics

<u>SWP Basin</u>			<u>Stream Code:</u>			<u>Stream Name:</u>					
10D			18668			WEST BRANCH SUSQUEHANNA RIVER					
RMI	Stream Flow	PWS With	Net Stream Flow	Disc Analysis Flow	Reach Slope	Depth	Width	WD Ratio	Velocity	Reach Trav Time	CMT
	(cfs)	(cfs)	(cfs)	(cfs)		(ft)	(ft)		(fps)	(days)	(min)
Q7-10 Hydrodynamics											
171.200	50.127	0	50.127	6.9615	0.0027	1.0695	127.08	118.82	0.4201	0.6881	295.272
166.470	51.45	0	51.45	NA	0	0	0	0	0	0	NA
Qh Hydrodynamics											
171.200	227.43	0	227.43	6.9615	0.0027	1.991	127.08	63.828	0.9264	0.3120	141.953
166.470	232.67	0	232.67	NA	0	0	0	0	0	0	NA

PENTOXSD Analysis Results

Wasteload Allocations

RMI Name Permit Number
171.20 Clearfield MA PA0026310

AFC

Q7-10:	CCT (min)	15	PMF	0.225	Analysis pH	7	Analysis Hardness	100
Parameter		Stream Conc (µg/L)	Stream CV	Trib Conc (µg/L)	Fate Coef	WQC (µg/L)	WQ Obj (µg/L)	WLA (µg/L)
MANGANESE		0	0	0	0	NA	NA	NA
MERCURY		0	0	0	0	1.4	1.647	4.32
		Dissolved WQC. Chemical translator of 0.85 applied.						
TOTAL IRON		0	0	0	0	NA	NA	NA
ZINC		0	0	0	0	117.18	119.816	314.272
		Dissolved WQC. Chemical translator of 0.978 applied.						

CFC

Q7-10:	CCT (min)	295.272	PMF	1	Analysis pH	7	Analysis Hardness	100
Parameter		Stream Conc. (µg/L)	Stream CV	Trib Conc. (µg/L)	Fate Coef	WQC (µg/L)	WQ Obj (µg/L)	WLA (µg/L)
MANGANESE		0	0	0	0	NA	NA	NA
MERCURY		0	0	0	0	0.77	0.906	7.429
		Dissolved WQC. Chemical translator of 0.85 applied.						
TOTAL IRON		0	0	0	0	1500	1500	12300.9
		WQC = 30 day average. PMF = 1.						
ZINC		0	0	0	0	118.139	119.816	982.567
		Dissolved WQC. Chemical translator of 0.986 applied.						

THH

Q7-10:	CCT (min)	295.272	PMF	1	Analysis pH	NA	Analysis Hardness	NA
Parameter		Stream Conc (µg/L)	Stream CV	Trib Conc (µg/L)	Fate Coef	WQC (µg/L)	WQ Obj (µg/L)	WLA (µg/L)
MANGANESE		0	0	0	0	1000	1000	8200.604
MERCURY		0	0	0	0	0.05	0.05	0.41
TOTAL IRON		0	0	0	0	NA	NA	NA
ZINC		0	0	0	0	NA	NA	NA

CRL

Qh: CCT (min) 141.953 PMF 1

PENTOXSD Analysis Results

Wasteload Allocations

RMI	Name	Permit Number						
171.20	Clearfield MA	PA0026310						
	Parameter	Stream Conc (µg/L)	Stream CV	Trib Conc (µg/L)	Fate Coef	WQC (µg/L)	WQ Obj (µg/L)	WLA (µg/L)
	MANGANESE	0	0	0	0	NA	NA	NA
	MERCURY	0	0	0	0	NA	NA	NA
	TOTAL IRON	0	0	0	0	NA	NA	NA
	ZINC	0	0	0	0	NA	NA	NA

PENTOXSD Analysis Results

Recommended Effluent Limitations

<u>SWP Basin</u>	<u>Stream Code:</u>	<u>Stream Name:</u>			
10D	18668	WEST BRANCH SUSQUEHANNA RIVER			
RMI	Name	Permit Number	Disc Flow (mgd)		
171.20	Clearfield MA	PA0026310	4.5000		
Parameter	Effluent Limit ($\mu\text{g/L}$)	Governing Criterion	Max. Daily Limit ($\mu\text{g/L}$)	Most Stringent	
				WQBEL ($\mu\text{g/L}$)	WQBEL Criterion
MANGANESE	690	INPUT	1076.511	8200.604	THH
MERCURY	0.4	INPUT	0.624	0.41	THH
TOTAL IRON	420	INPUT	655.268	12300.9	CFC
ZINC	50	INPUT	78.008	201.435	AFC



GD&F

GWIN,
DOBSON &
FOREMAN, INC.

CONSULTING

3121 FAIRWAY DRIVE
ALTOONA, PA 16602
(814) 943 - 5214

SOURCE: Delorme,
Topo Quad 3-D;
Clearfield
Quadrangle

DATE: January 19, 2006

SCALE: 1" = 2,000'

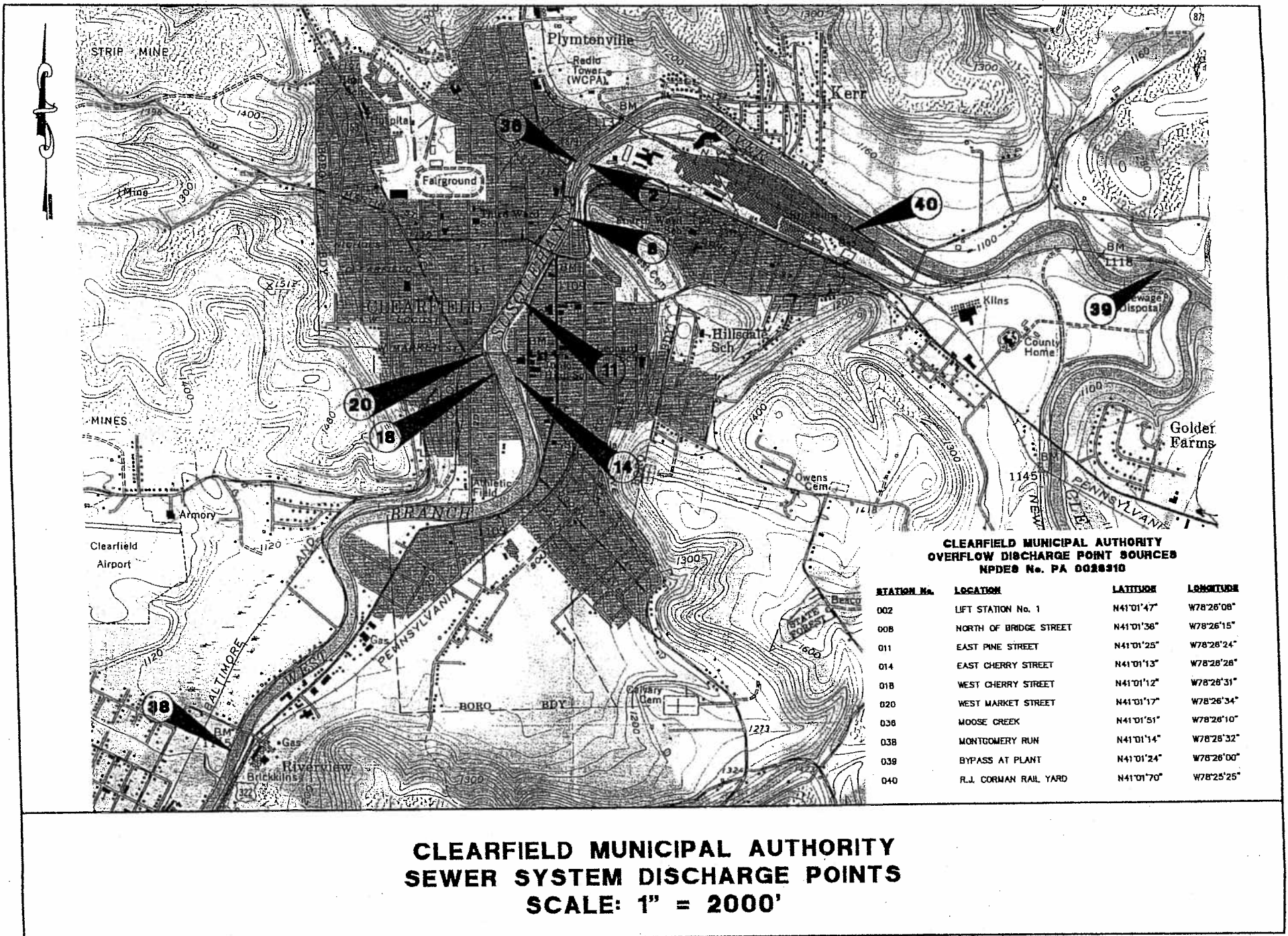
PROJECT NO: 90016

DRAWN BY: TJL

LOCATION MAP

**CLEARFIELD MUNICIPAL AUTHORITY
WASTEWATER TREATMENT FACILITY**

**LAWRENCE TOWNSHIP
CLEARFIELD COUNTY, PENNSYLVANIA**



Chesapeake Bay – Water Protection Report Addendum
Clearfield Municipal Authority

Most of the Chesapeake Bay and many of its tidal tributaries have been listed as impaired under Section 303(d) of the federal Water Pollution Control Act (“Clean Water Act”), 33 U.S.C. § 1313(d). For example, Maryland’s portion of the Bay was listed in 1996 and 1998. As part of a multi-state effort to restore the water quality of the Bay, Maryland and other states with Bay tidal waters refined their water quality standards, and promulgated criteria for dissolved oxygen, water clarity and chlorophyll-a.

These changes followed EPA Guidelines issued in 2003, the *Ambient Water Quality Criteria for Dissolved Oxygen, Water Clarity and Chlorophyll-a for the Chesapeake Bay and its Tidal tributaries* (EPA 903-R-03-002) and a subsequent *Addendum* (EPA 903-R-04-005). These were issued pursuant to Section 117(b) of the Clean Water Act, 33 U.S.C. §1317(b), and 40 CFR Part 131. The Maryland standards were finalized in 2005, and can be found at Code of Maryland Regulations (COMAR) §2608.02.03-3, as required by Section 303(c) of the Clean Water Act, 33 U.S.C. §1303(c).

In accordance with the federal Clean Water Act and Pennsylvania regulations, Maryland’s changes trigger the need for nutrient reductions in Pennsylvania to comply with the new standards. These reductions need to come from both point sources (e.g., sewage treatment plants, industrial dischargers) and non-point sources (e.g., farms).

To quantify the nutrient reductions needs, EPA has established maximum nutrient and sediment loads (“cap loads”) for each major watershed tributary to the Chesapeake Bay. This included allocation of cap loads for Total Nitrogen (TN) and Total Phosphorus (TP) in Pennsylvania for the Potomac and the Susquehanna watersheds. Pennsylvania’s overall cap loads for TN and TP were further divided into cap loads for point and non-point sources. This effort was done in coordination with Pennsylvania and other participating states in the Bay watershed, to comply with the new Maryland water quality standards.

DEP has developed a plan to meet these requirements. First, DEP issued its Chesapeake Bay Tributary Strategy in July 2004. This Strategy includes specific initiatives to address reductions from point sources and non-point sources. The Strategy does not prescribe mandatory requirements, but rather describes how the legal obligations can be met through a combination of actions, including changes to NPDES permits. The strategy describes the basis calculating the total allowable loading from PA to the Chesapeake Bay. Second, DEP conducted an extensive stakeholder process with sewage treatment plants in 2006, which led to the method used to allocate the point source portion of the load.

The following information shows the loading breakdown and required reduction from all point source discharges in the Pennsylvania portion of the Chesapeake Bay watershed. Monitoring data collected in 2002 was used to establish the overall contribution of nutrients and sediment to the Chesapeake Bay from PA.

Chesapeake Bay Loading Data		
	Delivered Load	
	Total Nitrogen (millions of lbs.)	Total Phosphorus (millions of lbs.)
Total Load from PA in 2002	109.2	3.6

Chesapeake Bay – Water Protection Report Addendum
Clearfield Municipal Authority

Point Source Contribution	14	0.9
Percentage from Sewage Discharges	13%	25%
Overall Reduction Required	37.3	1.1
Sewage Discharge Required Reduction	4.8	.3
Load Allocated to Sewage Discharges	9.2	0.6

The table above, Chesapeake Bay loading data, shows the estimated annual load, point source contributions and allowable loads delivered from PA to the Chesapeake Bay. These values have been rounded and are shown in millions of pounds. From the total load allocated to sewage discharges, individual facility cap loads were determined so that the overall load would not be exceeded. Many alternatives for determining individual facility cap loads were evaluated. Key considerations used by DEP in determining proper allocation of these loads were:

1. An equitable method of determining individual goals necessary to achieve the aggregate goal.
2. A method to allow growth while ensuring long-term compliance with loading caps.
3. Flexibility that allows most effective and efficient use of resources to achieve the established purposes/goals. This includes trading and cross-source accounting.
4. Reliable monitoring, reporting and tracking methods (including quality assurance)
5. Methods for encouraging and ensuring progress (this includes free-market as well as regulatory incentives)

As part of the development and refinement of the allocation method, DEP worked through a stakeholder process to acquire additional information and public participation in this process. As part of a larger steering committee the point source workgroup proposed an allocation method that was accepted by DEP. The workgroup focused on developing individual discharger cap loads, and alternatives to meet them. In late June 2006, the results of those discussions were presented to the PA Chesapeake Bay Tributary Strategy Steering Committee with a recommendation that they be distributed to the affected significant dischargers for review and comment. A significant discharger is any sewage treatment facility with design flows of 0.4 MGD.

The workgroup recommendation made the allocation based on the design annual average daily flow, and concentrations of 6mg/L total nitrogen and 0.8 mg/L total phosphorus (TP). The Department reviewed this recommendation and agrees that it meets the requirements described above.

Based on this methodology, the allocations for TN and TP for this facility are:

Design Annual Average Daily Flow	TN (lb/yr)	TP (lb/yr)
4.5 MGD	82,191	10,959

These allocations are expressed in the permit as annual loads. These are mass based requirements, and will be applied that way. The deliberations of the workgroup are available on the DEP website, www.dep.state.us.

Most of the Chesapeake Bay and many of its tidal tributaries have been listed as impaired under Section 303(d) of the federal Water Pollution Control Act ("Clean Water Act"), 33 U.S.C. § 1313(d). For example, Maryland's portion of the Bay was listed in 1996 and 1998.

In 2000, Pennsylvania, EPA and other states (and Washington D.C.) entered into a cooperative agreement on a strategy for restoring the Bay's water quality by 2010. They have been working very closely to implement that strategy since then.

A key element of the strategy was the need to focus on water quality criteria. Maryland and other states with Bay tidal waters refined their water quality standards, and promulgated criteria for dissolved oxygen, water clarity and chlorophyll-a. The Maryland standards were finalized in 2005, and can be found at Code of Maryland Regulations (COMAR) §2608.02.03-3.

These changes followed EPA Guidelines issued in 2003, the *Ambient Water Quality Criteria for Dissolved Oxygen, Water Clarity and Chlorophyll-a for the Chesapeake Bay and its Tidal tributaries* (EPA 903-R-03-002) and a subsequent *Addendum* (EPA 903-R-04-005). These were issued pursuant to Section 117(b) of the Clean Water Act, 33 U.S.C. §1317(b), and 40 CFR Part 131. The guidelines relied in large part on water quality modeling performed by EPA.

In accordance with the federal Clean Water Act and Pennsylvania regulations, Maryland's changes to its water quality standards trigger the need for nutrient reductions in Pennsylvania to comply with the new standards. These reductions need to come from both point sources (e.g., sewage treatment plants, industrial dischargers) and non-point sources (e.g., farms).

To quantify the nutrient reduction needs, maximum nutrient and sediment loads ("cap loads") for each major watershed tributary to the Chesapeake Bay were established. This included allocation of cap loads for Total Nitrogen (TN) and Total Phosphorus (TP) in Pennsylvania for the Potomac and the Susquehanna watersheds. Pennsylvania's overall cap loads for TN and TP were further divided into cap loads for point and non-point sources.

DEP has developed a plan to meet these requirements. First, DEP issued its Chesapeake Bay Tributary Strategy in December 2004. This Strategy includes specific initiatives to address reductions from point sources and non-point sources. The Strategy does not prescribe mandatory requirements, but rather describes how the legal obligations can be met through a combination of actions, including changes to NPDES permits. The strategy describes the basis for calculating the total allowable loading from PA to the Chesapeake Bay.

Second, DEP conducted an extensive stakeholder process with sewage treatment plants in 2006, which led to the current method used to allocate the point source portion of the load. The workgroup recommendation made the allocation based on the design annual average daily flow, and concentrations of 6mg/L total nitrogen and 0.8 mg/L total

phosphorus (TP). The Department reviewed this recommendation and agrees that it meets the requirements described above.

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